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1	4172	707/3.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/01 11:24
2	4070	707/10.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/01 11:24
3	155	707/3.ccls. and (cach\$5 same (imag\$5 \$5bandwidth graphic\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/01 11:25
4	244	707/10.ccls. and (cach\$5 same (imag\$5 \$5bandwidth graphic\$5))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/01 11:26
-	63719	(internet web www (world adj wide adj web)) adj (site\$1 page\$1 file\$)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 12:40
-	6522433	modif\$5 chang\$5 updat\$5 replac\$5 adjust\$5 alter\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 12:36
-	3552438	content image\$1 (high adj bandwidth) icon\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 12:39
-	58177	(local remote) with (content image\$1 (high adj bandwidth) icon\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 12:42
-	121	((internet web www (world adj wide adj web)) adj (site\$1 page\$1 file\$) ) same (modif\$5 chang\$5 updat\$5 replac\$5 adjust\$5 alter\$5 ) same (content image\$1 (high adj bandwidth) icon\$1) same local same remote	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 12:59
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-	9273	(modif\$5 chang\$5 updat\$5 replac\$5 adjust\$5 alter\$5 ) with ((internet web www (world adj wide adj web)) adj (site\$1 page\$1 file\$) )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 12:58
-	5715	709/217-219.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 12:58
-	100	((((internet web www (world adj wide adj web)) adj (site\$1 page\$1 file\$) ) same (modif\$5 chang\$5 updat\$5 replac\$5 adjust\$5 alter\$5 ) same (content image\$1 (high adj bandwidth) icon\$1) same local same remote) and database\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 13:12
-	2	6108655.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 13:14

-	2	6249787.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 13:14
-	2	6557054.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 13:16
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-	2	5892825.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 13:17
-	2	6108686.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 13:18
-	2	6038601.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 13:18
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-	0	6108655.pn. and database\$1	USPAT	2004/08/30 16:38
-	0	6249787.pn. and database\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 16:39
-	67	cach\$5 with image\$1 with database\$1	USPAT	2004/08/30 18:11
-	136	cach\$5 with image\$1 with database\$1) same(stor\$5 cd disk\$1 card\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 18:13
-	49	cach\$5 with image\$1 with database\$1) same(stor\$5 cd disk\$1 card\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 18:18
-	1937	(image\$1 graphic\$1) with database\$1 with (internet web (world adj wide adj web))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 18:18
-	1078	((image\$1 graphic\$1) with database\$1 with (internet web (world adj wide adj web))) same(stor\$5 cd disk\$1 card\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 18:18
-	769	((image\$1 graphic\$1) with database\$1 with (internet web (world adj wide adj web))) with (stor\$5 cd disk\$1 card\$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 18:19

-	3	((image\$1 graphic\$1) with database\$1 with (internet web (world adj wide adj web))) with (stor\$5 cd disk\$1 card\$1)) with cach\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 18:19
-	8	((image\$1 graphic\$1) with database\$1 with (internet web (world adj wide adj web))) with (stor\$5 cd disk\$1 card\$1)) same cach\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 18:19
-	136	cach\$5 with image\$1 with database\$1) same(stor\$5 cd disk\$1 card\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 18:25
-	1429	(image\$1 graphic\$1) with database\$1 with (disk\$1 card\$1 (stor\$3 adj medi\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 18:31
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-	669	((image\$1 graphic\$1) with database\$1 with (disk\$1 card\$1 (stor\$3 adj medi\$4))) and (web internet)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/30 18:31
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-	74	(download\$4 sav\$5 stor\$5) with (graphic\$1 imag\$5) with (internet web) with cach\$5	USPAT	2004/08/30 19:01
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-	3529	cache near (cd (compact adj disk) card port\$ remov\$ disk\$1)	USPAT	2004/08/30 19:14
-	91	upload with (imag\$ graphic\$) with (disk cd (stor\$5 medi\$5))	USPAT	2004/08/30 19:17
-	66	(upload with (imag\$ graphic\$) with (disk cd (stor\$5 medi\$5))) and (internet web)	USPAT	2004/08/31 12:13
-	2	6249787.pn. and \$6bandwidth	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/31 12:29
-	43	(database\$1 with (client\$1 user\$1) with image\$1) same cach\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/09/01 11:22


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### 1 [Hypertext versioning: Hypertext versioning for embedded link models](#)

Kai Pan, E. James Whitehead, Guozheng Ge

August 2004 **Proceedings of the fifteenth ACM conference on Hypertext & hypermedia**Full text available: [pdf\(215.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we describe Chrysant, a hypertext version control system for embedded link models. Chrysant provides general-purpose versioning capability to hypertext systems with an embedded link model. To apply Chrysant for a specific hypertext system, we require the containment model for this system's data model, the containment model of the version repository for this system, the hypertext role definition, the versioning role definition, and the filesystem mapping definition. Additionally, a ...

**Keywords:** HTML versioning, SCM, containment model, hypertext versioning, link versioning, structure versioning, version control system

### 2 [Curriculum and content: How to creatively communicate Microsoft.NET technologies in the IT curriculum](#)

Louise Chaytor, Soleda Leung

October 2003 **Proceeding of the 4th conference on Information technology curriculum**Full text available: [pdf\(207.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper discusses the creative methods used to teach Microsoft Visual Studio.NET in our College program. The techniques included overlapping of course coverage to provide continuity and implementation of projects that incorporated several different technologies with direct real world application. Although problems and difficulties were encountered, the strength of the techniques, benefits to students, solutions offered and programs implemented produced positive results that could be replicate ...

**Keywords:** computer programming, creativity, teaching technology, visual studio.NET

### 3 [Posters: BizCQ: using continual queries to cope with changes in business information exchange](#)

Wei Tang, Kipp Jones, Ling Liu, Calton Pu

May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**

Full text available:  pdf(197.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this poster, we propose the framework of BizCQ, a system to apply Continual Queries [7] [8] on Web-based content to manage information exchanges between two business partners. In this poster, we describe ways to leverage previous research in Web monitoring techniques applied to the everyday problem of managing change within a business environment, and focus on the difficulties of managing changes that are caused by external parties in business-to-business (B2B) information exchanges.

**Keywords:** B2B, business-to-business, change response, continual query, information quality, semantic web

#### 4 [Infrastructure for implementation: Adapting databases and WebDAV protocol](#)

Bitu Shadgar, Ian Holyer

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available:  pdf(253.41 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The ability of the Web to share data regardless of geographical location raises a new issue called remote authoring. With the Internet and Web browsers being independent of hardware, it becomes possible to build Web-enabled database applications. Many approaches are provided to integrate databases into the Web environment, which use the Web's protocol i.e. HTTP to transfer the data between clients and servers. However, those methods are affected by the HTTP shortfalls with regard to remote autho ...

#### 5 [Versioning and fragmentation: Automatic detection of fragments in dynamically generated web pages](#)

Lakshmish Ramaswamy, Arun Iyengar, Ling Liu, Fred Douglass

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available:  pdf(268.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Dividing web pages into fragments has been shown to provide significant benefits for both content generation and caching. In order for a web site to use fragment-based content generation, however, good methods are needed for dividing web pages into fragments. Manual fragmentation of web pages is expensive, error prone, and unscalable. This paper proposes a novel scheme to automatically detect and flag fragments that are cost-effective cache units in web sites serving dynamic content. We consider ...

**Keywords:** L-P fragments, dynamic content caching, fragment detection, fragment-based caching, shared fragments

#### 6 [Mobility: Flexible on-device service object replication with replets](#)

Dong Zhou, Nayeem Islam, Ali Ismael

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available:  pdf(414.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An increasingly large amount of such applications employ service objects such as Servlets to generate dynamic and personalized content. Existing caching infrastructures are not well suited for caching such content in mobile environments because of disconnection and weak connection. One possible approach to this problem is to replicate Web-related application logic to client devices. The challenges to this approach are to deal with client devices that exhibit huge divergence in resource availabil ...

**Keywords:** capability, preference, reconfiguration, replication, service, synchronization

7 Reaching out to the real world: Urban empowerment: a successful example of service learning

Louise Chaytor

October 2003 **Proceeding of the 4th conference on Information technology curriculum**

Full text available:  pdf(157.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes and demonstrates a creative way to implement Service Learning while assisting the urban community to improve visibility through empowering them to participate in the information age. 'Service Learning combines community service with classroom instruction, focusing on critical, reflective thinking as well as personal and civic responsibility.' [1]. To make Service Learning effective, there must be integration into College curriculum and sustainability. This paper will explain h ...

**Keywords:** civic responsibility, community engagement, creative learning, service learning, urban development

8 Advancing interaction: Aligning information browsing and exploration methods with a spatial navigation aid for mobile city visitors

Thomas Rist, Stephan Baldes, Patrick Brandmeier

May 2004 **Proceedings of the working conference on Advanced visual interfaces**

Full text available:  pdf(355.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Navigation support concerning both physical space as well as information spaces address fundamental information needs of mobile users in many application scenarios including the classical shopping visit in the town centre. Therefore it is a particular research objective in the mobile domain to explore, showcase, and test the interplay of physical navigation with navigation in an information space that, metaphorically speaking, superimposes the physical space. We have developed a demonstrator tha ...

**Keywords:** visual interfaces for mobile users, visual navigation tools

9 Design: Proving the validity and accessibility of dynamic web-pages

R. G. Stone, J. Dhiensa

May 2004 **Proceedings of the international cross-disciplinary workshop on Web accessibility**

Full text available:  pdf(58.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


If a static web-page is checked for accessibility and passes then all is well. However checking the accessibility of the output from a dynamic (scripted) web-page is like testing a program to find errors. However many times a test succeeds it is always possible that the program will produce bad output next time. What is needed is something closer to a proof of correctness. This paper describes a first attempt to provide a proof of validity for dynamic web-pages which can be extended to a proof o ...

**Keywords:** accessibility, dynamic Web-pages, validity

10 LinkSelector: A Web mining approach to hyperlink selection for Web portals

Xiao Fang, Olivia R. Liu Sheng

May 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 2

Full text available:  pdf(2.10 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As the size and complexity of Web sites expands dramatically, it has become increasingly challenging to design Web sites where Web surfers can easily find the information they

seek. In this article, we address the design of the portal page of a Web site, which serves as the homepage of a Web site or a default Web portal. We define an important research problem---hyperlink selection: selecting from a large set of hyperlinks in a given Web site, a limited number of hyperlinks for inclusion in a po ...

**Keywords:** Web mining

#### 11 Efficiently serving dynamic data at highly accessed web sites

James R. Challenger, Paul Dantzig, Arun Iyengar, Mark S. Squillante, Li Zhang

April 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 2

Full text available:  pdf(499.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


We present architectures and algorithms for efficiently serving dynamic data at highly accessed Web sites together with the results of an analysis motivating our design and quantifying its performance benefits. This includes algorithms for keeping cached data consistent so that dynamic pages can be cached at the Web server and dynamic content can be served at the performance level of static content. We show that our system design is able to achieve cache hit ratios close to 100% for cached data ...

**Keywords:** caching, dynamic content, performance analysis, prefetching, stochastic models, web sites

#### 12 Context-aware Web Information Systems

Aleksander Binemann-Zdanowicz, Roland Kaschek, Klaus-Dieter Schewe, Bernhard Thalheim

January 2004 **Proceedings of the first Asian-Pacific conference on Conceptual modelling - Volume 31**

Full text available:  pdf(413.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Apart from completeness usability, performance and maintainability are the key quality aspects for Web information systems. Considering usability as key implies taking usage processes into account right from the beginning of systems development. Context-awareness appears as a promising idea for increasing usability of Web Information Systems. In the present paper we propose an approach to context-awareness of Web Information Systems that systematically distinguishes among the various important k ...

**Keywords:** SiteLang, Web Information Systems, Web services, context-aware information systems, media objects

#### 13 A performance comparison of dynamic Web technologies

Lance Titchkosky, Martin Arlitt, Carey Williamson

December 2003 **ACM SIGMETRICS Performance Evaluation Review**, Volume 31 Issue 3

Full text available:  pdf(1.02 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

Today, many Web sites dynamically generate responses "on the fly" when user requests are received. In this paper, we experimentally evaluate the impact of three different dynamic content technologies (Perl, PHP, and Java) on Web server performance. We quantify achievable performance first for static content serving, and then for dynamic content generation, considering cases both with and without database access. The results show that the overheads of dynamic content generation reduce the peak re ...

**Keywords:** Dynamic Content Generation, Performance Evaluation, Web Performance, Web Server Benchmarking

**14 Papers: A page-transition framework for image-oriented Web programming**

Takao Shimomura

March 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 2Full text available:  [pdf\(1.52 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

To develop Web applications, various integrated development environments have been used. In addition, several frameworks for efficiently developing those applications have been proposed. This paper presents the image-oriented page-transition framework that models a Web application as a set of transitions of Web pages, and using visual components, makes it easier to write processes executed when a Web page transfers to another Web page. This page-transition framework has the following novel featu ...

**Keywords:** Web application, automatic code generation, image-oriented design, page-transition framework

**15 Back matter (abstracts and calendar)**

ACM SIGSOFT Software Engineering Notes staff

March 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 2Full text available:  [pdf\(2.18 MB\)](#) Additional Information: [full citation](#)**16 Engineering e-learning systems (ELS): Carrying on the e-learning process with a workflow management engine**

Mirko Cesarini, Mattia Monga, Roberto Tedesco

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**Full text available:  [pdf\(209.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In recent years e-learning systems have promised to change the way people learn. However open issues still remain, in particular actual e-learning environments do not consider learning activities as part of the process of learning. Thus, it is not possible to define structured courses and specify precise learning paths apt to guide learners through learning materials. In our approach, we define courses as workflows. By so doing we can exploit powerful procedural rules in order to define precise ...

**Keywords:** Workflow Mgmt Systems, e-learning, learning objects

**17 Robust multilingual parsing using island grammars**

Nikita Synytskyy, James R. Cordy, Thomas R. Dean

October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies conference on Collaborative research**Full text available:  [pdf\(128.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Any attempt at automated software analysis or modification must be preceded by a comprehension step, i.e. parsing. This task, while often considered straightforward, can in fact be very challenging for some source code. Files that make up web applications serve as an example of such difficult-to-parse artifacts, for two reasons. First, these files often contain several programming languages at once, sometimes with widely varying syntaxes, and intermingled at the statement level. Second, the code ...

**18 Migration of legacy web applications to enterprise Java<sup>TM</sup> environments net.data® to JSP<sup>TM</sup> transformation**

Yu Ping, Jianguo Lu, Terence C. Lau, Kostas Kontogiannis, Tack Tong, Bo Yi

October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies**



**conference on Collaborative research**

Full text available:  [pdf\(165.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


As Web technologies advance, the porting and adaptation of existing Web applications to take advantage of the advancement has become an issue of increasing importance. Examples of such technology advancement include extensible architectural designs, more efficient caching protocols, and provision for customizable dynamic content delivery. This paper presents an experience report on the migration of legacy IBM® Net.Data® based applications to new enterprise Java

**Keywords:** Java 2 Enterprise Edition (J2EE™), JavaBeans, JavaServer pages, Net.Data, SQL, migration, model-view-controller (MVC), transformation

**19 Tools: Virtual routers: a tool for networking research and education**

Florian Baumgartner, Torsten Braun, Eveline Kurt, Attila Weyland

July 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 3

Full text available:  [pdf\(284.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Virtual routers are software entities, i.e. user space processes, emulating IP routers on one or several (Linux) computers. Virtual routers can be used for both networking research and education. In contrast to simulation, virtual routers process packets in real-time and the virtual router code is similar to code in real routers. In the case of research, larger network test-beds can be built using a relatively small number of computers. New functionalities such as new queuing mechanisms are supp ...

**Keywords:** distance learning, network emulation, networking, performance evaluation

**20 Invited papers and panel: Multimedia user interfaces**

Isabel F. Cruz

May 1996 **Proceedings of the workshop on Advanced visual interfaces**

Full text available:  [pdf\(59.12 KB\)](#) Additional Information: [full citation](#), [citations](#)

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Potentials, IEEE , Volume: 17 , Issue: 3 , Aug.-Sept. 1998

Pages:33 - 37

[\[Abstract\]](#)   [\[PDF Full-Text \(1896 KB\)\]](#)   **IEEE JNL**
**2 Design and performance of a general-purpose software cache***Iyengar, A.;*

Performance, Computing and Communications Conference, 1999. IPCCC '99. International , 10-12 Feb. 1999

Pages:329 - 336

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**1 Soft caching: image caching in a rate-distortion framework**
*Weidmann, C.; Vetterli, M.; Ortega, A.; Carignano, F.;*

Image Processing, 1997. Proceedings., International Conference on , Volume 2 , 26-29 Oct. 1997

Pages:696 - 699 vol.2

[\[Abstract\]](#)    [\[PDF Full-Text \(304 KB\)\]](#)    **IEEE CNF**
**2 IMACTS: an interactive, multiterabyte image archive**
*Stephenson, T.; Voorhees, H.;*

Mass Storage Systems, 1995. 'Storage - At the Forefront of Information Infrastructures', Proceedings of the Fourteenth IEEE Symposium on , 11-14 S 1995

Pages:146 - 161

[\[Abstract\]](#)    [\[PDF Full-Text \(1728 KB\)\]](#)    **IEEE CNF**
**3 Talisman: multimedia for the PC**
*Randall, M.;*

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